



מכון ויצמן למדע

THE WEIZMANN INSTITUTE OF SCIENCE

REHOVOT · ISRAEL

רחובות · ישראל

DEPARTMENT OF GENETICS

המחלקה לגנטיקה

11 February 1972.

Dear Dan.

Because Ernest is presently away at a meeting I am writing to you. You mentioned in one of your letters that it might be feasible to let us have some of the purified H. influenzae restriction enzyme if there were a way to ship it. Early in March there is such an opportunity — namely to have someone bring it directly. I have asked Randy Holmes in my lab at NIH to call you. If enzyme is available he will arrange to have someone come to Hopkins to pick it up and then also arrange for its transport to Israel (probably by Gary Felsenfeld).

The reason for asking ~~is~~ doubt I have concerning our efforts to purify here. The fraction we have obtained clearly gives us component II from component I SV40, but we have not seen the 7S species on pH 8' sucrose gradients (as per Fig 1 in Danna-Nathans). We are about to try more enzyme — but since the opportunity arose to have enzyme brought I thought I better take advantage of the opportunity in case our preparation doesn't work out.

We had no trouble with the cells. The ones grown at 37° prior to shipping grew up well and



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our checks with medium menus hemin and DPN showed that it was indeed Hemophilus. Our problems probably come from the assay we are trying to use. We were not set up for the viscosity assay - either with substrate or viscometers. We tried to use Carter & Richardson's assay which measures conversion of double-stranded circles to irreversibly denatured linear molecules by absorption of the latter to filters. The assay works but clearly it is not specific for double-stranded breaks as is the viscometric assay.

I had an exuberant letter from Robb Moses - he is set up and working in Houston - delighted to have his own lab and pleased with the company of Wakil and Caskey.

The year here has been very interesting and busy so far - both in the lab and outside. Ernest is, as you know, stimulating, and I have managed to learn a great deal.

Many thanks in advance for the enzyme - and also for the previous assistance. Should it be impossible to let us have any enzyme, please do not hesitate to let us know. Neither Ernest nor I would want to have the request be an imposition on you.

With very best regards,

Makine Sanger